STIC Biotechnology Systems Branch

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Application Serial Number: _____ /0/587, 995_____

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Revised 01/10/06

IFWP

RAW SEQUENCE LISTING   DATE: 08/08/2006
PATENT APPLICATION: US/10/587,995   TIME: 09:17:15

        Input Set : A:\PTO.RJ.txt
        Output Set: N:\CRF4\08082006\J587995.raw

        3 <110> APPLICANT: Susan Marie Metcalfe
W--> 4 <120> TITLE OF INVENTION: Method of Inducing or Modulating Immune Response
C--> 5 <140> CURRENT APPLICATION NUMBER: US/10/587,995
C--> 5 <141> CURRENT FILING DATE: 2006-07-31
W--> 0 <130> FILE REFERENCE:
W--> 5 <160> NUMBER OF SEQ ID: 4

ERRORED SEQUENCES   Does Not Comply
                                     Corrected Diskette Needed

W--> 6 <210> SEQ ID NO: 1   Cpg -1,2,3)
     7 <211> LENGTH: 2728
E--> 8 <212> TYPE: mRNA
     9 <213> ORGANISM: Homo Sapiens
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     13 gaatggagtc taaaccttca aggattccaa gaagaatttc tgttcaacct tccagctcct   180
     14 taagtgctag gatgatgtct ggaagcagag gaagtagttt aaatgatacc tatcactcaa   240
     15 gagactcttc atttagattg gattctgaat atcagtctac atcagcatca gcatctgcgt   300
     16 caccatttca atctgcatgg tatagtgaat ctgagataac tcagggagca cgctcaagat   360
     17 cgcagaacca gcaacgggat catgattcaa aaagacctaa actttcctgt acaaactgta   420
     18 ctacctcagc tgggagaaat gttggaaatg gtttaaacac attatcagat tcatcttgga   480
     19 ggcatagtca agttcctaga tcttcatcaa tggtacttgg atcatttgga acagacttaa   540
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     22 attcacaagg agcaagacca aaagaaaact caatgagcac tttacagttg aatacatcat   720
     23 ccacaaacca ccaattgcct tctgaacatc agaccatact aagttctagg gattccagaa   780
     24 attctttaag atcaaatttt tcttcaagag aatcagaatc ttcccgaagc aatacgcagc   840
     25 ctggattttc ttacagttca agtagagatg aagccccaat cataagcaat tcagaaaggg   900
     26 ttgtttcatc tcaaagacca tttcaagaat cttctgacaa tgaaggtagg cggacaacga   960
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     28 gtcaggattc cttgaataca agatcattga attctgaaaa ttcttacgtt tctccaagaa   1080
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     30 gggcgtctga agcttctcag ggatttcgat ttcttaggcg aagatggggt ttgtcatctc   1200
     31 ttagccacaa tcatagctct gagtcagatt cagaaaattt taaccaagaa tctgaaggta   1260
     32 gaaatacagg accatggtta tcttcctcac ttagaaatag atgcacacct ttgttctcta   1320
     33 gaaggaggcg agagggaaga gatgaatctt caaggatacc tacctctgat acatcatcta   1380
     34 gatctcatat ttttagaaga gaatcaaatg aagtggttca ccttgaagca cagaatgatc   1440
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     37 ctggttcctt attccggttt gcagtccccc cagcacttgg gagtaatttg accgacaatg   1620
     38 tcatgatcac agtagatatt attccttcag gttggaattc agctgatggt aaaagtgata   1680

file://C:\CRF4\Outhold\VsrJ587995.htm   8/8/2006

RAW SEQUENCE LISTING   DATE: 08/08/2006
PATENT APPLICATION: US/10/587,995   TIME: 09:17:15

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\08082006\J587995.raw**

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 40 ttttagagga ctcagaagaa gaagaaggtg acttatgtag aatttgtcaa atggcagctg   1800
 41 catcatcatc taatttgctg atagagccat gcaagtgcac aggaagtttg cagtatgtcc   1860
 42 accaagactg tatgaaaaag tggttacagg ccaaaattaa ctctggttct tcattagaag   1920
 43 ctgtaaccac ctgtgaacta tgtaaagaga agttggagct taacctggag gattttgata   1980
 44 ttcatgaact acatagagct catgcaaatg aacaagctga gtatgagttt atcagctctg   2040
 45 gtctctacct agtggtgtta ttgcacttgt gcgaacaaag cttttctgat atgatgggaa   2100
 46 atacaaatga accaagcaca cgtgtccgat ttattaacct tgcaagaact cttcaggcac   2160
 47 atatggaaga tctcgaaact tcagaggatg attccgaaga agacggagac cataacagga   2220
 48 catttgatat tgcctaactt catataagac agatggatga tctgtgaaca taagtgttta   2280
 49 ttaaaaatgg caattaaata taaattactt ttgtgggggga atgcctaata aatacattga   2340
 50 ctatatataa aatgaatata tacatacaca tgtatgcctg tatatatata ttcattctcc   2400
 51 agtgttgctg aattaaaatt ctgctggact ttttaacata gcaaatccga tgtttataaa   2460
 52 ctggtaatca aaaaggtttt ttcttttagg tgagtgggaa agtattaccc ttgttttaaa   2520
 53 tatctaagca atgcctatca accctttttt gtgttatgat tactgtagtc atatttatga   2580
 54 aaaaaggttt gtgtttact cttgctagtg agaaaagtgg gacaaaatat acttttgaaa   2640
 55 taaaatgcta tatggcacct aattattttt tctttttaaaa tgccttaagt tgcagtctca   2700
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 59 <211> LENGTH: 2720
 60 <212> TYPE: mRNA
 61 <213> ORGANISM: Mus musculus
 62 <400> SEQUENCE: 2
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 65 ccctgcagcg gagtgctcgg tggaagaggg aaaccttaag aatggagtct aaaccttcca 180
 66 ggattccaag aagaatttct gttcaaccct ctggctcttt aagcactagg atggtgtctg 240
 67 gaaacagagg aaccagttta aatgattcat atcattctag agactcctcc tttagactgg 300
 68 attctgaata tcagtctgca tcagcatcag cgtgtgcatc accatgtcag cctgcctggt 360
 69 acagtgagtc tgagatacct cagggagcgc gggcacgagc acagacccag cagcgggatc 420
 70 atgactcaaa gagacccaag ctttcctgta caaactgtgc atctacctca gctgggagga 480
 71 acggtgggag tgggttaaat acagtgtcag attcttcttg gaggcatagt caagttccca 540
 72 gatcttcatc aatggtactt ggttcatttg aacagactt gatgagagaa aggagagatt 600
 73 tggacaggag aagagagtcc tccatcagca atcttatgga ttataatcac cgaagtggtg 660
 74 atttcacaac ttcatcatat gttcaagaaa gagttccttc ttcatattca cagggagcaa 720
 75 gaccaaaaga gaatgcagtg agcactttac agttgaattc atcatccacc aatcaccaat 780
 76 tgccttctga ccatcagaca gtaccaagtt ctagggactc cagtagaagt tctttcagat 840
 77 cacatttttc tccaagacaa tcagaatctt ttcgcaacag ttcacatcct gcattttcat 900
 78 attttttcaag tagaaatgaa actccaacta taagcaattc agaaaggggt tcatctcaga 960
 79 gaccatatcg agaatcttct gacaatgaag gtaggcgtac aactaggaga ttgctgtcac 1020
 80 ggatagcttc tagcatgtca tctactttt tctcacgaag atctagtcaa gattccttga 1080
 81 atacaagatc tttgagttct gaaaattata tttctccgag aaccctgact tcacagtctc 1140
 82 ggaataatgg aacctcctcg tcctctgacg tcagtgaggg caggcagct gaagcatctc 1200
 83 agggatttag atttcttagg cgaagatggg ggttgtcgtc gctcagccaa aatcatagct 1260
 84 ctgaaccaga ggcagaaaat tttaaccaag aatcagaagg tagaaattca ggaccatggt 1320
 85 tgtcttcttc acttagaaat agatgcacac ctttgttctc gagaaggagg cgagagggaa 1380
 86 gggatgagtc ttcaagaatg tctacgtcag atgtaccacc tagatctcat attttcagaa 1440
 87 gagattcaaa tgaagtagtt catcttgaag cacagggtga ctcccttggg gctgctgcca 1500
 88 accgaccaca agcatctgga gcgtcaagca gtgctgctgc aggtggctcc accccagagt 1560
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RAW SEQUENCE LISTING   DATE: 08/08/2006
PATENT APPLICATION: US/10/587,995   TIME: 09:17:16

              Input Set : A:\PTO.RJ.txt
              Output Set: N:\CRF4\08082006\J587995.raw

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 89 tgcctcaggg tggaagaaat ccaggactaa cagggattct tcctggctcc ttgttccggt 1620
 90 ttgcagtccc accagcactc ggcagtaatc tggctgacaa tgtcatgatt actgtagata 1680
 91 ttatcccttc tggttggaat tcaactgatg ggaaaaatga taaagctaaa agtgcacctt 1740
 92 caagagaccc agaaaaactt cagaaaatca aagaaagcct ccttttagag gactctgatg 1800
 93 atgaagaaga aggggactta tgtagaattt gtcagatggc agcagcgtca tcatctaatt 1860
 94 tattgataga gccgtgcaaa tgcacaggga gcctgcagta cgtccatcaa gagtgtatga 1920
 95 aaaagtggtt acaagccaaa attaattctg gctcttcatt agaggctgtg actacctgtg 1980
 96 aactctgtaa agagaagttg caacttaacc tggaggattt tgatattcat gaactacata 2040
 97 gagctcatgc aaatgaacaa gctgagtatg agtttatcag ctctggtctc tacctagttg 2100
 98 tcttactgca cttgtgtgaa caaagctttt ctgatatgat gggaaataca attgaaccaa 2160
 99 gcactcgtgt ccgatttatt aaccttgcaa gaactcttca ggcacatatg gaagatctcg 2220
100 aaacttcaga ggatgaattc tgaagaagat ggagaccata agagaatgct tgatattgcc 2280
101 taacttcatt taagaaaaaa aaaaaaaagg atgatctgtg aacatgttta ttaaaactgg 2340
102 caattaagta tggataattt catggggtaa tgcctagtag attaattgac tatacataaa 2400
103 atgaatatat atatatacat gtataaatgt aaatatatat tcattctcaa gtattgctga 2460
104 actgaaattc ttgagctgga cccttttaaca ctggccagcg aatctcatgt ttataatatg 2520
105 taatccaagc attttttcctt ttggtgagtg ggaaagcatt accttgttt gaaatatcta 2580
106 aacagtgctc atcaactttc ttctttgttg caattactgt agtcatattt atgggaaaaa 2640
107 aatgtttgtg tattagtctc ttgctagtga aaaaaagtca gataaaatgt ccttttgaaa 2700
108 taaaatgcca atggcaccta          2720
110 <210> SEQ ID NO: 3
111 <211> LENGTH: 704
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E--> 112 <212> TYPE: (Polypeptide) ───> *Type can be either RNA or DNA or*
113 <213> ORGANISM: Homo Sapiens   *PRT.*

W--> 114 <400> SEQUENCE: 3

```
116 1   meskpsripr risvqpsssl sarmmsgsrg sslndtyhsr dssfrldsey qstsasasas
117 61  pfqsawyses eitqgarsrs qnqqrdhdsk rpklsctnct tsagrnvgng lntlsdsswr
118 121 hsqvprsssm vlgsfgtdlm rerrdlerrt dssisnlmdy shrsgdftts syvqdrvpsy
119 181 sqgarpkens mstlqlntss tnhqlpsehq tilssrdsrn slrsnfssre sessrsntqp
120 241 gfsysssrde apiisnserv vssqrpfqes sdnegrrttr rllsriassm sstffsrrss
121 301 qdslntrsln sensyvspri ltasqsrsnv psasevpdnr aseasqgfrf lrrrwglssl
122 361 shnhssesds enfnqesegr ntgpwlsssl rnrctplfsr rrregrdess riptsdtssr
123 421 shifrresne vvhleaqndp lgaaanrpqa saasssattg gstsdsaqgg rntgisgilp
124 481 gslfrfavpp algsnltdnv mitvdiipsg wnsadgksdk tksapsrdpe rlqkikesll
125 541 ledseeeegd lcricqmaaa sssnllliepc kctgslqyvh qdcmkkwlqa kinsgsslea
126 601 vttcelckek lelnledfdi helhrahane qaeyefissg lylvvllhlc eqsfsdmmgn
127 661 tnepstrvrf inlartlqah medletsedd seedgdhnrt fdia
129 <210> SEQ ID NO: 4
130 <211> LENGTH: 693                ───> *Same Error*
```

E--> 131 <212> TYPE: (Polypeptide)
132 <213> ORGANISM: Mus musculus

W--> 133 <400> SEQUENCE: 4

```
134 1   meskpsripr risvqpsgsl strmvsgnrg tslndsyhsr dssfrldsey qsasasacas
135 61  pcqpawyses eipqgarara qtqqrdhdsk rpklsctnca stsagrnggs glntvsdssw
136 121 rhsqvprsss mvlgsfgtdl mrerrdldrr ressisnlmd ynhrsgdftt ssyvqervps
137 181 sysqgarpke navstlqlns sstnhqlpsd hqtvpssrds srssfrshfs prqsesfrns
138 241 shpafsyfss rnetptisns ergssqrpyr essdnegrrt trrllsrias smsstffsrr
139 301 ssqdslntrs lssenyispr tltsqsrnng tssssdvseg raaeasqgfr flrrrwglss
140 361 lsqnhssepe aenfnqeseg rnsgpwlsss lrnrctplfs rrrregrdes srmstsdvpp
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RAW SEQUENCE LISTING　　　　　　　　DATE: 08/08/2006
PATENT APPLICATION: **US/10/587,995**　　　TIME: 09:17:16

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\08082006\J587995.raw**

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141 421 rshifrrdsn evvhleaqgd slgaaanrpq asgasssaaa ggstpelpqg grnpgltgil
142 481 pgslfrfavp palgsnladn vmitvdiips gwnstdgknd kaksapsrdp eklqkikesl
143 541 lledsddeee gdlcricqma aasssnllie pckctgslqy vhqecmkkwl qakinsgssl
144 601 eavttcelck eklqlnledf dihelhraha neqaeyefis sglylvvllh lceqsfsdmm
145 661 gntiepstrv rfinlartlq ahmedletse def
150 1
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VERIFICATION SUMMARY   DATE: 08/08/2006
PATENT APPLICATION: **US/10/587,995**   TIME: 09:17:17

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\08082006\J587995.raw**

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L:4 M:283 W: Missing Blank Line separator, <120> field identifier
L:5 M:270 C: Current Application Number differs, Replaced Current Application No
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:0 M:201 W: Mandatory field data missing, <130> FILE REFERENCE
L:5 M:283 W: Missing Blank Line separator, <160> field identifier
L:6 M:283 W: Missing Blank Line separator, <210> field identifier
L:8 M:310 E: (3) Wrong or Missing Sequence Type, numeric identifier <212>, for SEQ ID#:1
L:10 M:283 W: Missing Blank Line separator, <400> field identifier
L:60 M:310 E: (3) Wrong or Missing Sequence Type, numeric identifier <212>, for SEQ ID#:2
L:62 M:283 W: Missing Blank Line separator, <400> field identifier
L:112 M:310 E: (3) Wrong or Missing Sequence Type, numeric identifier <212>, for SEQ ID#:3
L:114 M:283 W: Missing Blank Line separator, <400> field identifier
L:131 M:310 E: (3) Wrong or Missing Sequence Type, numeric identifier <212>, for SEQ ID#:4
L:133 M:283 W: Missing Blank Line separator, <400> field identifier
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